Exhibit "B" - Pending claims after response filed to March 9, 2001 final office action:

1. (Twice Amended) in a wireless telecommunications system having a Base
Transceiver Station (BTS) and a mobile terminal equipped with an integrated Global Positioning
System (GPS) equipped receiver, the Base Transceiver Station having operational control of the
GPS-equipped mobile terminal, a method for determining the approximate position of the GPS-
equipped mobile terminal, said method comprising the steps of:
demodulating signals received from a multiplicity of GPS satellites at a reference GPS
receiver, said reference GPS receiver being connected to the wireless telecommunications system
and having a determinate physical location relative to the Base Transceiver Station;
recovering respective navigational data signals from each of said demodulated GPS
signals;
originating a request for approximate navigational information from the GPS-
equipped mobile terminal to the Base Transceiver Station;
transmitting recovered navigational data signals to the GPS-equipped mobile terminal
responsive to said request for approximate navigational information; and
determining, from said transmitted navigational data signals, the approximate location
of the GPS-equipped mobile terminal;
wherein the GPS satellite signals comprise one of:
Standard Positioning Service (SPS) signals received on an L1 frequency, said
L1 frequency being centered at about 1575.42 MHz; or

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Precise Positioning Service (PPS) signals received on an L2 frequency, said

L2 frequency being centered at about 1227.60 MHz.

- 4. The method according to Claim 1, wherein said approximate navigational information comprises the identities of a plurality of GPS satellites within ranging distance, the orbital parameters associated with said plurality of GPS satellites, clock correction information and differential correction information associated with said plurality of GPS satellites.
- 5. The method according to Claim 1, wherein said step of originating said request for approximate locational information from the GPS-equipped mobile terminal to the Base Transceiver Station is responsive to activation of the mobile terminal.
 - 6. The method according to Claim 1, wherein said step of originating said request for approximate locational information from the GPS-equipped mobile terminal to the Base Transceiver Station is responsive to placing a call from the GPS-equipped mobile terminal to one of a set of designated numbers.
- 7. The method according to Claim 6, wherein said one designated number is associated with an emergency service.

8. In a wireless telecommunications system having a Base Transceiver Station (BTS)
and a mobile terminal equipped with an integrated Global Positioning System (GPS) equipped
receiver, the Base Transceiver Station having operational control of the GPS-equipped mobile
terminal, a method for determining the approximate position of the GPS-equipped mobile terminal,
said method comprising the steps of:
demodulating signals received from a multiplicity of GPS satellites at a reference GPS
receiver, said reference GPS receiver being connected to the wireless telecommunications system
and having a determinate physical location relative to the Base Transceiver Station;
recovering respective navigational data signals from each of said demodulated GPS
signals;
determining whether the GPS signal strength at the GPS-equipped mobile terminal
is adequate to permit initialization of the reference GPS receiver associated with the GPS-equipped
mobile terminal within a desired response time;
if not, originating a request for approximate navigational information from the GPS-
equipped mobile terminal to the Base Transceiver Station;
transmitting recovered navigational data signals to the GPS-equipped mobile terminal
responsive to said request for approximate navigational information; and
determining, from said transmitted navigational data signals, the approximate location
of the GPS-equipped mobile terminal

1	9. (Amended) In a wireless telecommunications system having a Base Transceiver
2	Station (BTS) and a mobile terminal equipped with an integrated Global Positioning System (GPS)
3	equipped receiver, the Base Transceiver Station having operational control of the GPS-equipped
4	mobile terminal, a method for determining the approximate position of the GPS-equipped mobile
5	terminal, said method comprising the steps of:
6	demodulating signals received from a multiplicity of GPS satellites at a reference GPS
7	receiver, said reference GPS receiver being connected to the wireless telecommunications system
8	and having a determinate physical location relative to the Base Transceiver Station;
9	recovering respective navigational data signals from each of said demodulated GPS
10	signals;
11	originating a request for approximate navigational information from the GPS-
12	equipped mobile terminal to the Base Transceiver Station;
13	transmitting recovered navigational data signals to the GPS-equipped mobile terminal
14	responsive to said request for approximate navigational information; and
15	determining, from said transmitted navigational data signals, the approximate location
16	of the GPS-equipped mobile terminal;
17	wherein said step of transmitting is performed via one of:
18	a Cell Broadcast (CB) Short Message Service (SMS) message of the wireless
19	telecommunications system; or

20		a Broadcast Control Channel (BCCH) of the wireless telecommunications
21	system.	
1	11.	(Amended) In a wireless telecommunications system having a Base Transceiver
2	Station (BTS) and a mobile terminal equipped with an integrated Global Positioning System (GPS)
3	equipped rec	eiver, the Base Transceiver Station having operational control of the GPS-equipped

demodulating signals received from a multiplicity of GPS satellites at a reference GPS receiver, said reference GPS receiver being connected to the wireless telecommunications system and having a determinate physical location relative to the Base Transceiver Station;

mobile terminal, a method for determining the approximate position of the GPS-equipped mobile

terminal, said method comprising the steps of:

recovering respective navigational data signals from each of said demodulated GPS signals;

originating a request for approximate navigational information from the GPS-equipped mobile terminal to the Base Transceiver Station;

transmitting recovered navigational data signals to the GPS-equipped mobile terminal responsive to said request for approximate navigational information;

determining, from said transmitted navigational data signals, the approximate location of the GPS-equipped mobile terminal

periodically transmitting a Timing Advance parameter from the Base

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18 Transceiver Station to the GPS-equipped mobile terminal to dynamically compensate for varying distances between the GPS-equipped mobile terminal and the Base Transceiver Station; and 19 20 refining said approximate location of the GPS-equipped mobile terminal using said Timing Advance parameter. 21 1 13. (Twice Amended) In a wireless telecommunications system having a Base 2 Transceiver Station and a mobile terminal equipped with an integrated Global Positioning System (GPS) receiver, the Base Transceiver Station having operational control of the GPS-equipped mobile 3 terminal, a method for determining the approximate position of the GPS-equipped mobile terminal, 4 5 said method comprising the steps of: 6

demodulating signals received from a multiplicity of GPS satellites at a reference GPS receiver, said reference GPS receiver being connected to the wireless telecommunications system and having a determinate physical location relative to the Base Transceiver Station;

computing an estimated location of said reference GPS receiver using said demodulated signals from said GPS satellities;

originating a request for approximate locational information from the GPS-equipped mobile terminal to the Base Transceiver Station;

transmitting said estimated location of said reference GPS receiver from the Base Transceiver Station to the GPS-equipped mobile terminal responsive to said request for approximate locational information; and

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16	determining, from said transmitted location of said reference GPS receiver, the
17	approximate location of the GPS-equipped mobile terminal;
18	wherein the GPS satellite signals comprise one of:
19	Standard Positioning Service (SPS) signals received on an L1 frequency, said
20	L1 frequency being centered at about 1575.42 MHz; or
21	Precise Positioning Service (PPS) signals received on an L2 frequency, said
22	L2 frequency being centered at about 1227.60 MHz.
1	14. The method according to Claim 13, wherein said step of computing the estimated
2	location of said reference GPS receiver further comprises the steps of:
3	recovering respective navigational data signals from each of said demodulated GPS
4	signals from said GPS satellites; and
5	computing, from the respective navigational data signals, the location of said
6	reference GPS receiver.
1	15. The method according to Claim 14, wherein said respective navigational data signals
2	comprise orbital parameters associated with a plurality of GPS satellites, clock correction
3	information and differential correction information.
1	16. The method according to Claim 13, wherein said method further comprises, after said

2 step of computing and before said step of originating, the step of:

3 storing said estimated location of said reference GPS receiver in said wireless

telecommunications system.

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- 17. The method according to Claim 13, wherein said step of originating said request for approximate locational information from the GPS-equipped mobile terminal to the Base Transceiver Station is responsive to activation of the GPS-equipped mobile terminal.
- 18. The method according to Claim 13, wherein said step of originating said request for approximate locational information from the GPS-equipped mobile terminal to the Base Transceiver Station is responsive to placing a call from the GPS-equipped mobile terminal to one of a set of designated numbers.
- 19. The method according to Claim 18, wherein said one designated number is associated with an emergency service.
- 20. (Amended) In a wireless telecommunications system having a Base Transceiver Station and a mobile terminal equipped with an integrated Global Positioning System (GPS) receiver, the Base Transceiver Station having operational control of the GPS-equipped mobile terminal, a method for determining the approximate position of the GPS-equipped mobile terminal,

5	said method comprising the steps of:
6	demodulating signals received from a multiplicity of GPS satellites at a reference GPS
7	receiver, said reference GPS receiver being connected to the wireless telecommunications system
8	and having a determinate physical location relative to the Base Transceiver Station;
9	computing an estimated location of said reference GPS receiver using said
10	demodulated signals from said GPS satellites;
11	determining whether a GPS signal strength at the GPS-equipped mobile terminal is
12	adequate to permit initialization of the reference GPS receiver associated with the GPS-equipped
13	mobile terminal within a desired response time;
14	if not, originating a request for approximate locational information from the GPS-
15	equipped mobile terminal to the Base Transceiver Station;
16	transmitting said estimated location of said reference GPS receiver from the Base
17	Transceiver Station to the GPS-equipped mobile terminal responsive to said request for approximate
18	locational information; and
19	determining, from said transmitted location of said reference GPS receiver, the
20	approximate location of the GPS-equipped mobile terminal.
1	21. (Amended) In a wireless telecommunications system having a Base Transceiver

Station and a mobile terminal equipped with an integrated Global Positioning System (GPS)

receiver, the Base Transceiver Station having operational control of the GPS-equipped mobile

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4	terminal, a method for determining the approximate position of the GPS-equipped mobile terminal,
5	said method comprising the steps of:
6	demodulating signals received from a multiplicity of GPS satellites at a reference GPS
7	receiver, said reference GPS receiver being connected to the wireless telecommunications system
8	and having a determinate physical location relative to the Base Transceiver Station;
9	computing an estimated location of said reference GPS receiver using said
10	demodulated signals from said GPS satellites;
11	originating a request for approximate locational information from the GPS-equipped
12	mobile terminal to the Base Transceiver Station;
13	transmitting said estimated location of said reference GPS receiver from the Base
14	Transceiver Station to the GPS-equipped mobile terminal responsive to said request for approximate
15	locational information; and
16	determining, from said transmitted location of said reference GPS receiver, the
17	approximate location of the GPS-equipped mobile terminal;
18	wherein said step of transmitting is performed via one of:
19	a Cell Broadcast (CB) Short Message Service (SMS) message over the
20	wireless telecommunications system; or
21	a Broadcast Control Channel (BCCH) of the wireless telecommunications
22	system.

23. The method according to Claim 13, wherein the estimated location of said reference GPS receiver is used as the approximate location of the GPS-equipped mobile terminal.

24. (Twice Amended) In a wireless telecommunications system having a Base Transceiver Station and a mobile terminal equipped with an integrated Global Positioning System (GPS) receiver, the Base Transceiver Station having operational control of the GPS-equipped mobile terminal, a system for determining the approximate position of the GPS-equipped mobile terminal, said system comprising:

demodulation means for demodulating signals received from a multiplicity of GPS satellites at a reference GPS receiver, said reference GPS receiver being connected to the wireless telecommunications system and having a determinate physical location relative to the Base Transceiver Station;

signal recovery means for recovering navigational data signals from each of said demodulated signals from said GPS satellites;

requesting means for requesting approximate navigational information for the GPS-equipped mobile terminal from the Base Transceiver Station;

transmission means for transmitting said recovered navigational data signals to the GPS-equipped mobile terminal responsive to said request for approximate navigational information; and

determination means for determining, from said transmitted navigational data signals

18 to determine the approximate location of the GPS-equipped mobile terminal; wherein the GPS satellite signals comprise one of: 19 20 Standard Positioning Service (SPS) signals received on an L1 frequency, said 21 L1 frequency being centered at about 1575.42 MHz; or 22 Precise Positioning Service (PPS) signals received on an L2 frequency, said 23 L2 frequency being centered at about 1227.60 MHz. 1 27. The system according to Claim 24, wherein said approximate navigational information comprises the identities of a plurality of GPS satellites within ranging distance, the 2 orbital parameters associated with said plurality of GPS satellites, clock correction information and 3 4 differential correction information associated with said plurality of GPS satellites. The system according to Claim 24, wherein said requesting means is responsive to 1 28. activation of the mobile terminal. 2 The system according to Claim 24, wherein said requesting means is responsive to 29. 1 placing a call from the GPS-equipped mobile terminal to one of a set of designated numbers. 2 The system according to Claim 24, wherein said one designated number is associated 1 30. 2 with an emergency service.

31. (Amended) In a wireless telecommunications system having a Base Transceiver
Station and a mobile terminal equipped with an integrated Global Positioning System (GPS)
receiver, the Base Transceiver Station having operational control of the GPS-equipped mobile
terminal, a system for determining the approximate position of the GPS-equipped mobile terminal,
said system comprising:
demodulation means for demodulating signals received from a multiplicity of GPS
satellites at a reference GPS receiver, said reference GPS receiver being connected to the wireless
telecommunications system and having a determinate physical location relative to the Base
Transceiver Station;
signal recovery means for recovering navigational data signals from each of said
demodulated signals from said GPS satellites;
determining means for determining whether GPS signal strength at the GPS-equipped
mobile terminal is adequate to permit initialization of the reference GPS receiver associated with the
GPS-equipped mobile terminal within a desired response time;
requesting means for requesting approximate navigational information for the GPS-
equipped mobile terminal from the Base Transceiver Station, if said GPS signal strength is not
adequate to permit said initialization;
transmission means for transmitting said recovered navigational data signals to the
GPS-equipped mobile terminal responsive to said request for approximate navigational information;

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determination means for determining, from said transmitted navigational data signals to determine the approximate location of the GPS-equipped mobile terminal.

32. (Amended) In a wireless telecommunications system having a Base Transceiver Station and a mobile terminal equipped with an integrated Global Positioning System (GPS) receiver, the Base Transceiver Station having operational control of the GPS-equipped mobile terminal, a system for determining the approximate position of the GPS-equipped mobile terminal, said system comprising:

demodulation means for demodulating signals received from a multiplicity of GPS satellites at a reference GPS receiver, said reference GPS receiver being connected to the wireless telecommunications system and having a determinate physical location relative to the Base Transceiver Station;

signal recovery means for recovering navigational data signals from each of said demodulated signals from said GPS satellites;

requesting means for requesting approximate navigational information for the GPSequipped mobile terminal from the Base Transceiver Station;

transmission means for transmitting said recovered navigational data signals to the GPS-equipped mobile terminal responsive to said request for approximate navigational information; and

17	determination means for determining, from said transmitted navigational data signals
18	to determine the approximate location of the GPS-equipped mobile terminal,
19	wherein said transmission means comprises one of:
20	a Cell Broadcast (CB) Short Message Service (SMS) message over the
21	wireless telecommunications system; or
22	a Broadcast Control Channel (BCCH) of the wireless telecommunications
23	system.
1	34. (Amended) In a wireless telecommunications system having a Base Transceiver
2	Station and a mobile terminal equipped with an integrated Global Positioning System (GPS)
3	receiver, the Base Transceiver Station having operational control of the GPS-equipped mobile
4	terminal, a system for determining the approximate position of the GPS-equipped mobile terminal,
5	said system comprising:
6	demodulation means for demodulating signals received from a multiplicity of GPS
7	satellites at a reference GPS receiver, said reference GPS receiver being connected to the wireless
8	telecommunications system and having a determinate physical location relative to the Base
9	Transceiver Station;
10	signal recovery means for recovering navigational data signals from each of said
11	demodulated signals from said GPS satellites;
12	requesting means for requesting approximate navigational information for the GPS-

equipped mobile terminal from the Base Transceiver Station;

transmission means for transmitting said recovered navigational data signals to the GPS-equipped mobile terminal responsive to said request for approximate navigational information; determination means for determining, from said transmitted navigational data signals to determine the approximate location of the GPS-equipped mobile terminal,

means for periodically transmitting a Timing Advance parameter from the Base Transceiver Station to the GPS-equipped mobile terminal to dynamically compensate for varying distances between the GPS-equipped mobile terminal and the Base Transceiver Station; and means for refining said approximate location of the GPS-equipped mobile terminal using said Timing Advance parameter.

36. (Twice Amended) In a wireless telecommunications system having a Base Transceiver Station and a mobile terminal equipped with an integrated Global Positioning System (GPS) receiver, the Base Transceiver Station having operational control of the GPS-equipped mobile terminal, a system for determining the approximate position of the GPS-equipped mobile terminal, said system comprising:

a demodulator for demodulating signals received from a multiplicity of GPS satellites at a reference GPS receiver, said reference GPS receiver being connected to the wireless telecommunications system and having a determinate physical location relative to the Base Transceiver Station;

computing means for determining an estimated location of said reference GPS
receiver using said demodulated signals from said GPS satellites;
requesting means for requesting approximate locational information from the GPS-
equipped mobile terminal to the Base Transceiver Station;
a transmitter for transmitting the location of said reference GPS receiver from the
Base Transceiver Station to the GPS-equipped mobile terminal responsive to said request for said
approximate locational information; and
determination means for determining the approximate location of the GPS-equipped
mobile terminal using said transmitted location of said reference GPS receiver;
wherein the GPS satellite signals comprise one of:
Standard Positioning Service (SPS) signals received on an L1 frequency, said
L1 frequency being centered at about 1575.42 MHz; or
Precise Positioning Service (PPS) signals received on an L2 frequency, said
L2 frequency being centered at about 1227.60 MHz.
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37. The system according to Claim 36, wherein said computing means further comprises:
decoder means for recovering respective navigational data signals from each of said
demodulated signals from said GPS satellites; and
computing means for computing the location of said reference GPS receiver from said
respective navigational data signals.

38. 1 The system according to Claim 37, wherein said respective navigational data signals 2 comprise the orbital parameters associated with a plurality of GPS satellites, clock correction 3 information and differential correction information. The system according to Claim 36, wherein said computing means further comprises: 39. 1 storage means for storing said estimated location of said reference GPS receiver in 2 3 said wireless telecommunications system. 40. The system according to Claim 36, wherein said requesting means is responsive to 1 activation of the mobile terminal. 2 41. The system according to Claim 36, wherein said requesting means is responsive to 1 placing a call from the GPS-equipped mobile terminal to one of a set of designated numbers. 2 The system according to Claim 41, wherein said one designated number is associated 42. 1 2 with an emergency service. (Amended) In a wireless telecommunications system having a Base Transceiver 43. 1 Station and a mobile terminal equipped with an integrated Global Positioning System (GPS) 2

3	receiver, the Base Transceiver Station having operational control of the GPS-equipped mobile
4	terminal, a system for determining the approximate position of the GPS-equipped mobile terminal,
5	said system comprising:
6	a demodulator for demodulating signals received from a multiplicity of GPS satellites
7	at a reference GPS receiver, said reference GPS receiver being connected to the wireless
8	telecommunications system and having a determinate physical location relative to the Base
9	Transceiver Station;
10	computing means for determining an estimated location of said reference GPS
11	receiver using said demodulated signals from said GPS satellites;
12	determining means for determining whether a GPS signal strength at the GPS-
13	equipped mobile terminal is adequate to permit initialization of the reference GPS receiver
14	associated with the GPS-equipped mobile terminal within a desired response time;
15	requesting means for requesting approximate locational information from the GPS-
16	equipped mobile terminal to the Base Transceiver Station, if said GPS signal strength is not adequate
17	to permit said initialization;
18	a transmitter for transmitting the location of said reference GPS receiver from the
19	Base Transceiver Station to the GPS-equipped mobile terminal responsive to said request for said
20	approximate locational information; and
21	determination means for determining the approximate location of the GPS-equipped
22	mobile terminal using said transmitted location of said reference GPS receiver.

44. (Amended) in a wireless telecommunications system having a Base Transceiver
Station and a mobile terminal equipped with an integrated Global Positioning System (GPS)
receiver, the Base Transceiver Station having operational control of the GPS-equipped mobile
terminal, a system for determining the approximate position of the GPS-equipped mobile terminal,
said system comprising:
a demodulator for demodulating signals received from a multiplicity of GPS satellites
at a reference GPS receiver, said reference GPS receiver being connected to the wireless
telecommunications system and having a determinate physical location relative to the Base
Transceiver Station;
computing means for determining an estimated location of said reference GPS
receiver using said demodulated signals from said GPS satellites;
requesting means for requesting approximate locational information from the GPS-
equipped mobile terminal to the Base Transceiver Station;
a transmitter for transmitting the location of said reference GPS receiver from the
Base Transceiver Station to the GPS-equipped mobile terminal responsive to said request for said
approximate locational information; and
determination means for determining the approximate location of the GPS-equipped
mobile terminal using said transmitted location of said reference GPS receiver;
wherein said transmitter transmits over one of:

20	a Cell Broadcast (CB) Short Message Service (SMS) message over the wireless
21	telecommunications system; or
22	a Broadcast Control Channel (BCCH) of the wireless telecommunications system.
1	46. The system according to Claim 36, wherein the estimated location of said reference
2	GPS receiver is used as the approximate location of the GPS-equipped mobile terminal.